

Title (en)

METHOD OF PRODUCING A PART WITH VERY HIGH MECHANICAL PROPERTIES FROM A ROLLED COATED SHEET

Title (de)

VERFAHREN ZUM HERSTELLEN EINES BAUTEILS MIT SEHR GUTEN MECHANISCHEN EIGENSCHAFTEN AUS GEWALZTEM UND BESCHICHTETEM STAHLBLECH

Title (fr)

PROCEDE DE FABRICATION D'UNE PIECE A TRES HAUTES CARACTERISTIQUES MECANIQUES A PARTIR D'UNE TOLE LAMINEE ET REVETUE

Publication

**EP 1943368 A1 20080716 (FR)**

Application

**EP 06820214 A 20061012**

Priority

- FR 2006002316 W 20061012
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Abstract (en)

[origin: WO2007048883A1] The invention relates to a method of producing a part with very high mechanical properties from a rolled coated sheet. According to the invention, more than 90 % of the thickness of a steel part is coated with a compound which comprises at least one Fe-Zn-based phase that is rich on iron and which is formed by at least one alloying heat treatment between the steel and a pre-coat, said pre-coat consisting of a zinc alloy containing between 0.5 and 2.5 wt.-% aluminium and optionally one or more elements selected from Pb = 0.003 wt.-%, Sb = 0.003 wt.-%, Bi = 0.003 wt.-%, 0.002 wt.-% = Si = 0.07 wt.-%, La < 0.05 wt.-%, Ce < 0.05 wt.-%, the remainder comprising zinc and inevitable impurities.

IPC 8 full level

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